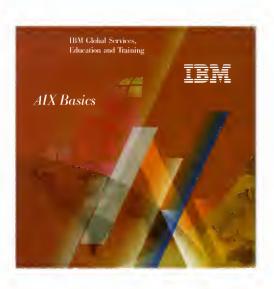
IBM AIX Essentials

Contents

I. AIX Basics

- A. Starting with AIX
 - 1. Getting Started
 - a. History of UNIX/AIX
 - b. Major Components
 - 2. Using the System
 - a. Using the System
 - i. Logging In and Out
 - ii. Basic AIX Commands
 - b. AIX Documentation
 - i. Using the man Command
 - ii. Using InfoExplorer
 - 3. Working with Files
 - Using Files and Directories
 - i. Basic Concepts of Files
 - ii. Basic Concepts of Directories
 - iii. File and Directory Operations
 - b. File Permissions
 - Listing Basic File Permissions i.
 - ii. Changing Basic File Permissions
- B. Using Shells and Processes
 - 1. Working with Shells
 - a. Shell Basics
 - Shell Basics
 - ii. File Redirection
 - iii. Additional Shell Options
 - b. Using Shell Variables
 - - i. Shell Variable Basicsii. Command Basics
 - 2. Using the vi Editor
 - 3. Processes
 - a. Process Concepts
 - b. Shell Scripts
- C. Advanced User Functions
 - 1. Advanced Features
 - Customizing the User Environment
 - **User Environment**
 - ii. Korn Specials
 - b. AIX Utilities
 - i. The find Command
 - The grep Command
 - iii. Other AIX Commands
 - Additional Shell Features
 - i. Shell Variables and Commands
 - ii. Implementing Shell Scripts



II. AIX System Administration

- A. Installation, Startup, and Shutdown
 - 1. Introduction
 - a. Terms and Concepts
 - b. Common RS/6000 Configurations
 - 2. System Management Tools
 - a. System Administrator Role
 - b. Evolution of System Administration
 - c. SMIT
 - d. Additional System Management Tools
 - 3. Software Installation
 - a. The Base Operating System (BOS)
 - b. Licensed Program Products (LPP)
 - 4. System Startup and Shutdown
 - a. System Startup
 - b. Process Initialization
 - c. System Shutdown
 - d. Managing the System Environment
- B. Devices and Printing
 - 1. Devices
 - a. Introduction to Devices
 - i. Terminology and the /dev Directory
 - ii. Devices and the ODM
 - iii. Location Codes
 - iv. Configuring Devices
 - b. Serial Devices
 - i. What about Serial Devices
 - ii. Managing TTYs
 - 2. Printers and Queues
 - a. Queuing
 - i. Queuing 101
 - ii. Adding a Printer and Its Queue
 - b. Managing Queues
 - i. Managing Queues
 - ii. Managing Print Jobs
- C. LVM, File Systems, and Paging Space
 - 1. System Storage Overview
 - a. Introduction to System Storage
 - i. Terminology
 - ii. File Systems
 - b. Working with the LVM
 - i. Managing Volume Groups
 - ii. Managing Logical Volumes
 - iii. Managing Physical Volumes
 - iv. Mirroring and Striping
 - 2. Working with File Systems
 - a. Components of an AIX File System
 - i. What Is a File System
 - ii. Managing File Systems
 - b. Managing User Disk Space
 - Managing Growth
 - ii. Disk Quotas
 - 3. Paging Space
 - a. What is Paging Space
 - b. Managing Paging Space

- D. Backup, Security, and User Administration
 - 1. Backup and Restore
 - a. Backup Strategy
 - b. Volume Group Backups
 - c. Backing Up File Systems
 - d. Other Useful Commands
 - 2. Security

 - a. Users and Groupsb. Controlling root's Access
 - c. File and Directory Permissions
 - d. Security-Related Files
 - e. Additional Security Features of the PCI
 - 3. User Administration
 - a. What Happens When I Log In?
 - b. Managing Users and Groups
 - c. Password Considerations
 - d. Users Will Talk!
- E. Scheduling and Network Overview
 - 1. Scheduling
 - a. The cron Daemon
 - b. Managing Jobs
 - 2. Network Overview
 - a. Introduction to TCP/IP

 - b. Configuring TCP/IP
 c. Basic TCP/IP User Functions
 d. Setting Up and Using Remote Printing

III. AIX TCP/IP Communications

- A. TCP/IP and Routing
 - 1. TCP/IP
 - a. TCP/IP Concepts
 - i. Introduction
 - ii. Addressing
 - iii. Ports, Sockets, and Data Flow
 - iv. Subnetting and Multicasting
 - b. Configuring TCP/IP
 - i. Customization
 - ii. Verifying the Configuration
 - c. Using TCP/IP Commands
 - i. ARPANET
 - ii. Berkelev
 - iii. Other Useful Network Commands
 - 2. Routing
 - a. Routing Overview
 - b. Static Routing
 - c. Sample Routing Scenarios
- B. Network File System (NFS)
 - 1. NFS Concepts and Configuration
 - a. NFS Concepts
 - i. Introduction to NFS
 - ii. NFS Daemons
 - iii. NFS Authentication and Security
 - b. NFS Configuration
 - i. The NFS Serverii. The NFS Client

 - iii. Managing NFS
 - 2. Automounter
- C. DNS, NIS, and Remote Printing
 - 1. Domain Name System (DNS)
 - a. DNS Concepts
 - b. Configuring a Primary Name Server
 - c. Configuring a Secondary Name Server
 - d. Configuring a Client and Managing DNS
 - 2. Network Information Service (NIS)
 - a. NIS Concepts
 - b. Configuring and Managing NIS
 - i. Configuring NIS
 - ii. Managing NIS
 - 3. Remote Printing

 - a. Printing Reviewb. Configuring Remote Printing
 - c. Xstations and Network Printers

IV. AIX Desktop Environment for Users

- A. X Window for Users
 - 1. An X Window System Walkthrough
 - 2. X Window Concepts
 - 3. X Window User Customization
- B. CDE for AIX Users
 - 1. A CDE Walkthrough
 - 2. The CDE Desktop
 - a. CDE Desktop Components
 - b. CDE Tools
 - 3. CDE Tools
 - a. CDE Text Editor
 - b. CDE Icon Editor
 - c. CDE File Manager
 - 4. CDE User Customization
 - a. Customizing CDE
 - b. Customizing with the Style Manager
 - c. CDE Front Panel Customization

V. AIX Version 4.3 Features Overview

- A. General Enhancements
 - 1. WSM
 - 2. Introduction to On-line Assistance
 - 3. TCP/IP
- B. Hardware Announcements and Architecture
 - 1. 64-Bit Application Enablement
 - 2. Hardware Announcements
- C. System Management
 - 1. NLS
 - 2. System Management
 - 3. Open Network Computing
 - 4. Welcome Center
- D. AIX Standalone LDAP Directory Product
 - 1. Web-Based Administrative Interface
 - 2. Directory Server
 - 3. Client Toolkit
 - 4. Security
 - 5. Installation
- E. Graphics Enhancements
 - Components of X-Windows Architecture
 X-Windows Release 6

 - 3. Motif 2.1